



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

64321-14

Date of Issuance:

1/3/17

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

BIO KILL BRAND MICRO-FAST
CONCENTRATE

Name and Address of Registrant (include ZIP Code):

Rebecca M. Horton
Consultant/Agent for Jesmond Holding Ag.
Registrations by Design, Inc.
P.O. Box 1019
Salem, VA 24153

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Kable Bo Davis, Product Manager 03 and 04
Invertebrate & Vertebrate Branch 1
Registration Division (7505P)

Date:

1/3/17

2. You are required to comply with the data requirements described in the DCI Orders identified below:

- a. Phenothrin GDCI-069005-1285
- b. Prallethrin GDCI-128722-1244

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Orders listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 64321-14."
5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 12/15/2016

If you have any questions, please contact Elizabeth Fertich at fertich.elizabeth@epa.gov or (703) 347-0560.

Enclosure

BIO KILL® BRAND MICRO-FAST CONCENTRATE

Optional Marketing Statement(s)

Use in, on and around buildings and structures for the control of listed pest.

For Indoor and Outdoor Use

Use in and around residential buildings, on lawns, ornamental trees and shrubs, and recreational areas.

Use as a perimeter treatment around the home to kill (protect against) listed insects (pests).

Kills (Controls) ants (excluding carpenter, fire, harvester and pharaoh ants) and other listed pests.

Kills On Contact – Keeps On Killing

Very fast knockdown and killing effect by direct spray!

(Kills on Contact) – reveals a residual killing efficacy for up to 8 weeks [2 months] [56 days] after treatment.

Kills ants (excluding carpenter, fire, harvester and pharaoh ants), silverfish, spiders (excluding black widow, brown recluse, hobo and sac spiders) and other listed insects for [at least] 8 weeks.

Active Ingredients:

d-Phenothrin (CAS #26002-80-2)..... 10.86%

Prallethrin (CAS #23031-36-9)..... 1.05%

Other Ingredients: 88.09%

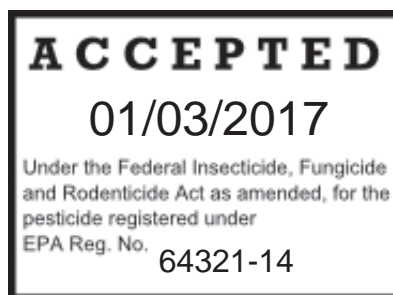
Total: 100.00%

(Contains 0.94 lb. d-Phenothrin and 0.09 lb. Prallethrin per gallon)

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See back/side/other panel(s) for additional Precautionary Statements

Net Contents _____



PRECAUTIONARY STATEMENTS

Environmental Hazards

This product is extremely toxic to fish and other aquatic organisms. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

SHAKE WELL BEFORE USING.

For use indoor and outdoor residential use. [For use in and around homes [garages], [attics], [apartments] and [hotels].]

To kill [silverfish], [earwigs], [ants (excluding carpenter, fire, harvester and pharaoh ants)], [spiders (excluding black widow, brown recluse, hobo and sac spiders)], [crickets], [pill bugs], [sow bugs] [carpet beetles], [confused flour beetles], [darkling beetles], [dermestids], [firebrats], [fruit flies], [non-biting gnats], [Indian meal moths], [lesser grain borers], [millipedes], [moths], [red flour beetles], [saw-toothed grain beetles] and [&][other listed insects] in the environment, apply directly to pests.

INDOOR USE

RESTRICTIONS: Do not enter or allow others to enter the treated area until the sprays have dried. Do not allow people or pets to enter treated area until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated. Wait two (2) hours after application, then open windows, vents and doors for two (2) hours. If an odor is still detected, additional ventilation is required. Remove pets, birds and cover fish aquariums before spraying. In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash utensils before use. Cover exposed food and remove utensils in serving areas. Application is prohibited directly to sewers or drains, or to any area like a gutter when drainage to sewers, storm drains, water bodies or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Application Within Food Handling Establishments: For places other than private residences in which exposed food is held, processed, prepared, or served including, but not limited to, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), and serving areas. Use as a crack and crevice or spot treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and

rinsed with potable water before using. Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments should not exceed two sq. ft. Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

Application Within Food Serving Areas: For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards, under elements of construction, and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

NOTE: Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted. Use of application equipment such as the Micro-Injector or Actisol applicator in food areas should be limited to crack and crevice treatment only.

KILLS FLYING INSECTS including Asian lady beetles, fruit flies, non-biting (fungus) gnats, and small flying moths. Apply to non-food serving or handling areas only with a sprayer nozzle capable of delivering a fine-mist spray. Close all doors and windows. Holding spray nozzle about 3 feet from interior walls, fabrics or furniture, spray Bio Kill brand Micro-Fast solution into the air with a sweeping motion until the room is thoroughly misted. Vacate room, close door and keep closed for 2 hours. Ventilate room prior to re-entry.

For Asian lady beetles apply as a direct spray to visible insects.

For residual control, apply as a direct spray to screens, areas around doors and windows and other areas where these pests gain entrance to the house.

KILLS CRAWLING INSECTS including ants (excluding carpenter, fire, harvester and pharaoh ants), carpet beetles, crickets, firebrats, pillbugs, silverfish, sowbugs, and spiders (excluding black widow, brown recluse, hobo and sac spiders).

Apply as a direct spray, hitting as many insects as possible, and to insect hiding places such as baseboards and floor boards; undersides of carpets; under and behind cabinets, bookcases, shelves and other storage areas; refrigerators, stoves, and in moist areas around sinks, and pipes. When applying near stoves or water heaters, turn off pilot light prior to spraying.

For Ants (excluding carpenter, fire, harvester and pharaoh ants), spray visible ant trails and hills around doors and openings where listed ants crawl.

For indoor applications, **BIO KILL** brand **Micro-Fast** can be applied at [4 weeks] [30-day][1 month] intervals if necessary. Applied as directed, BioKill brand Micro-Fast provides **up to 8 weeks** control of listed insects on non-porous surfaces.

Mixing Instructions: Dilute **BIO KILL** brand **Micro-Fast** with water for application using hand-held pump- or power-operated application equipment [lawn and garden sprayer] capable of delivering a coarse spray for crack and crevice or spot and general surface (non-food/nonfeed areas only) treatments. Following the use rates in the table below, fill applicator tank with the water and add **BIO KILL** brand **Micro-Fast**. Close and shake before use in order to ensure proper mixing. Shake or reagitator applicator tank before use if applications is interrupted. Mix only amount of treatment volume as required. **BIO KILL** brand **Micro-Fast** may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment.

Conversion Rate:

1 fluid ounce (fl. oz.) = 30 milliliters (mL) = 6 teaspoons (tsp.) = 2 Tablespoon (Tbs.)

RATES FOR PESTS - USING HAND-HELD PUMP OR POWER-OPERATED TANK SPRAYER [LAWN & GARDEN SPRAYER]

Mix 2.25 fl. oz. in 1 gallon of water. Applied to non-porous surfaces, 1 gallon of spray solution per 1,000 sq. ft. provides 8 weeks residual control of *ants (excluding carpenter, fire, harvester and pharaoh ants), moths, silverfish, and spiders (excluding black widow, brown recluse, hobo and sac spiders)*. Also kills *silverfish, boxelder bugs, carpet beetles, cigarette beetles, clover mites, confused flour beetles, crickets, dermestids, earwigs, firebrats, Indian meal moths, lesser grain borers, millipedes, red flour beetles, rice weevils, saw-toothed grain beetles, sowbugs, litter beetles (adults/immature stages such as Darkling, Hide, and Carrion), pillbugs, spider mites (Two-spotted, Spruce)*

For Surface or Spot Applications: Hold sprayer nozzle approximately 12 inches from surface to be treated. Apply directly to insects when possible.

For Crack & Crevice Applications: Adjust sprayer nozzle to deliver a pin stream; place nozzle tip into cracks, crevices, holes and other small openings.

Ants (excluding carpenter, fire, harvester and pharaoh ants): Apply as a crack and crevice or spot treatment to ant trails around doors and windows where listed ants may be found. Locate and treat nests. Where listed ants are trailing inside, apply as a residual treatment to active areas such as baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices.

Silverfish, Spiders (excluding black widow, brown recluse, hobo and sac spiders): Apply as a crack and crevice or spot treatment using a coarse, low pressure spray to baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics, and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, and drawers. Pay particular attention to cracks and crevices; also see **Outdoor Surfaces Use**.

Crickets, Earwigs and Firebrats: Apply as a crack and crevice or spot treatment using a coarse, low pressure spray to baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics, and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, and drawers. Pay particular attention to cracks and crevices; also see **Outdoor Surfaces Use**.

Pantry Pests (Carpet Beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Saw-toothed grain beetle): Apply as a crack and crevice or spot treatment to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing utensils, foodstuff, or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.

Boxelder Bugs, Millipedes, Pillbugs, and Sowbugs: Apply as a spot or crack and crevice spray around doors and windows where these pests may be found or where they may enter premises. Treat baseboards and storage areas. Apply outdoor barrier treatments to prevent infestation as described below; also see **Outdoor Surfaces Use**.

Pet Kennels & Bedding

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Make interior and exterior perimeter applications in and around the pet housing structures. Normal cleaning of the structure must also be done along with applications of **BIO KILL** brand **Micro-Fast** to effectively control the crawling and flying insect pests listed in the table.

BIO KILL brand **Micro-Fast** may be used in unoccupied areas of pet housing structures. Apply to floors, vertical, and overhead surfaces where crawling or flying insect pests are or may be present. Pay attention to areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations or flying and crawling insect pests.

RESTRICTIONS:

- **DO NOT** make applications of Bio Kill brand Micro-Fast in areas where pets are present in the facility. Allow treated surfaces to completely dry before allowing pets to return.
- **DO NOT** contaminate any pet food, feed, or water in and around pet housing when making applications.
- **DO NOT** apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.
- **DO NOT** water the treated area to the point of run off.
- **DO NOT** make applications during rain.

OUTDOOR USE

RESTRICTIONS: Application is prohibited directly to sewers or drains, or to any area like a gutter when drainage to sewers, storm drains, water bodies or aquatic habitat can occur. Do not allow the product to enter any drain during or after application. Do not water the treated area to the point of run off. Do not make applications during rain.

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label: 1) applications to soil or vegetation, as listed on this label, around structures; applications to lawns, turf, and other vegetation, as listed on this label; applications to the side of a building, up to a maximum height of 3 feet above grade; applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhand, awning, or other structure; 5) applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width; 6) applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

[Optional – when labeled/distributed for residential use:

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) treatment to soil or vegetation around structures; 2) applications to lawns, turf, and other vegetation; 3) applications to building foundations, up to a maximum height of 3 feet. Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.

Outdoor Surfaces Use

Mix 2.25 fl. oz. in 1 gallon of water. Applied to non-porous surfaces, 1 gallon of spray solution per 1,000 sq. ft. provides 8 weeks residual control of *ants (excluding carpenter, fire, harvester and pharaoh ants)*, *moths, silverfish, and spiders (excluding black widow, brown recluse, hobo and sac spiders)*. Also kills *crickets, millipedes, sowbugs, pillbugs* and other listed pests.

Apply at 4 to 8 weeks [1 to 2 months] intervals if retreatment is necessary with a lawn and garden sprayer as a residual surface treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, and refuse dumps where these insect pests are active. Do not use on edible crops.

Perimeter Treatments

Apply a continual band of insecticide around building foundations and around windows, doors, entrances, eaves, and vents to reduce the potential for entry by crawling pests. Before applications, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure and upwards along the foundation to 3 ft., and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

LAWNS/TURFGRASS AND ORNAMENTALS

BIO KILL brand Micro-Fast may be used for applications to maintain outdoor areas where turf and ornamentals are grown such as residential lawns and landscaped areas (including trees, shrubs, flowers, evergreens, foliage plants, and groundcovers).

IMPORTANT: Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

Mix 2.25 fl. oz. in 1 gallon of water. Fill applicator tank with the desired volume of water and add **BIO KILL brand Micro-Fast**. Close and shake or reagitator applicator tank before use if application is interrupted. Apply 1 gallon of dilute solution to cover 1,000 sq. ft. Make up only amount of treatment volume required.

INSECT CONTROL on ORNAMENTAL PLANTS

BIO KILL brand Micro-Fast is for use in residential landscaped areas including trees, shrubs, flowers, evergreens, foliage plants and groundcovers. Kills *ants (excluding carpenter, fire, harvester and pharaoh ants)*, *aphids, armyworms, azalea caterpillars, bagworms, black vine weevils (adults), boxelder bugs, broadmites, brown softscales, budworms, California oakworms, California redscales (crawlers), cankerworms, caterpillars, clover mites, crickets, cutworms, Eastern tent caterpillars, Elm leaf beetles, European sawflies, fall webworms, flea beetles, forest tent caterpillars, fruit flies, gypsy moth larvae, Japanese beetles (adults), June beetles, lace bugs, leaf-feeding caterpillars, leafhoppers, leafminers (adults), leaf rollers, leaf skeletonizers, mealybugs, non-biting midges, Oleander moth larvae, phorid flies, pillbugs, pine sawflies, pine shoot beetles, pineneedlescales (crawlers), pinetip moths, plant bugs, potato beetles, root weevils, scale insects (crawlers), spiders (excluding black widow, brown recluse, hobo and sac spiders), spider mites, spittlebugs, striped beetles, striped oakworms, thrips, tip moths, Tussock moth larvae, webworms and whiteflies*.

Apply at 4 to 8 weeks [1 to 2 months] intervals if retreatment is necessary with a lawn and garden sprayer as a residual surface treatment. Application to ornamentals should be started prior to the establishment of high insect pest populations. Good spray coverage is necessary to provide the

most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.

Scale: Thoroughly cover the plant with **BIO KILL** brand **Micro-Fast** spray, including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).

Bagworm: Apply **BIO KILL** brand **Micro-Fast** when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.

NOTE: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution. It is advised to prespray a selection of ornamental plants and observe them for 7 – 10 days prior to treating large areas if local use experience is unavailable.

LAWN/TURFGRASS INSECT PEST CONTROL

BIO KILL brand **Micro-Fast** is for use in residential lawns and recreational areas. Kills *ants*, *armyworms*, *Bluegrass billbugs (adult)*, *black turfgrass ataenius (adult)*, *chinch bugs*, *crickets*, *cutworms*, *earwigs*, *grasshoppers*, *grubs (suppression)*, *Hyperodes weevil (adult)*, *Japanese beetles (adults)*, *millipedes*, *listed mites*, *mole crickets (nymphs and young adults)*, *pillbugs*, *sod webworms*, and *sow bugs*.

Surface Insect Control (including armyworms, cutworms): Mix **2.25** fl. oz. of **BIO KILL** brand **Micro-Fast** in 2 – 5 gals. of water and apply to cover 1,000 sq. ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 – 24 hours for control of surface-feeding insect pests.

Thatch Inhabiting Insect control (including chinch bugs, billbugs): Mix **2.25** fl. oz. of **BIO KILL** brand **Micro-Fast** in 2 – 10 gals. of water to cover 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to ½ inch of water to move the **BIO KILL** brand **Micro-Fast** into the thatch layer. If irrigation is not available, then use high water application.

Subsurface Insect Control (including mole crickets, grubs): Mix **2.25** fl. oz. of **BIO KILL** brand **Micro-Fast** in 4 – 10 gals. of water to cover 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply **BIO KILL** brand **Micro-Fast** to turf wet with dew, rain or irrigation. Water-in immediately after application with ¼ - ½ inch of water.

Apply at 4 to 8 weeks [1 to 2 months] intervals if retreatment is necessary with a lawn and garden sprayer as a residual surface treatment. Application to turf should be started prior to the establishment of high insect pest populations.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container, out of reach of children and pets.

Pesticide Disposal: *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Container Handling: *If empty* -- Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.

To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning this use of this product other than indicated on the label. To the extent consistent with applicable law, buyer assumes all risk of use and/or handling of this product when such use and/or handling is contrary to label instructions.

Jesmond Holdings Ag
Chollerstrasse 35, CH 6301
Zug Switzerland
[Lot No. to be added at production]